

**ABSTRACT OF THE DISCLOSURE**

The present invention analyzes a user's or client application's requirements and searches for a solution based on the end-to-end latency requirements (requested or derived), data formats, control protocols, timing and synchronization, local streaming, and resource availability. The search for a solution is tracked to allow backtracking from the point of no solution. Once a solution is determined, the system translates the solution into requirements for the individual components of the graph.